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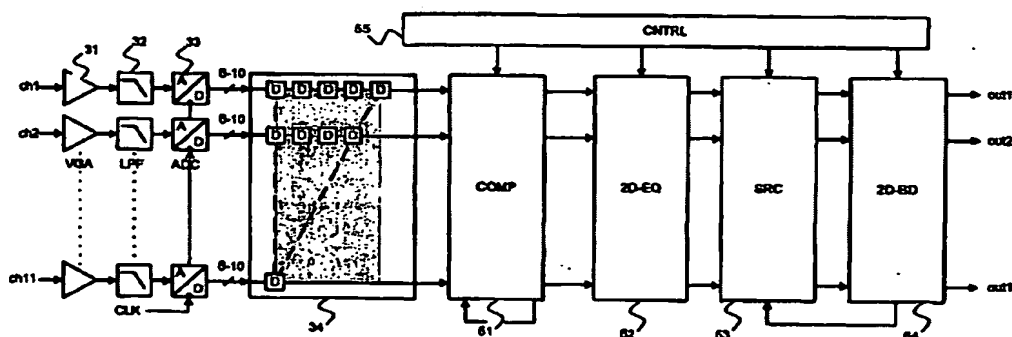
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(54) Title: **CHANNEL SYNCHRONIZATION FOR TWO-DIMENSIONAL OPTICAL RECORDING**



(57) Abstract: The present invention relates to a method for synchronizing the signals coming from a set of data channels of a two dimensional optical read-out system. Said synchronization method comprises a step of cross-correlating the signals of a pair of adjacent channels for determining a relative phase delay between said adjacent channels. It also comprises a step of iterating the cross-correlation step for the different pair of adjacent channels of the set of data channels. It finally comprises a step of compensating for the relative phase delays thus obtained in order to align the signals from adjacent channels with each other. The present invention is based on, for example, the use of the optical cross talk existing between adjacent channels in a cross correlator that is able to determine the relative phase between two adjacent channels.